

M·C·C·

Micro Commercial Components



Micro Commercial Components
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**DL5817
THRU
DL5819**

Features

- Schottky Barrier Rectifier
- Guard Ring Protection
- Low Forward Voltage
- Low Power Loss For High Efficiency
- High Current Capability
- Surface Mount Applications
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 15°C/W Junction To Lead

| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|----------------|--|---------------------|-----------------------------|
| DL5817 | --- | 20V | 14V | 20V |
| DL5818 | --- | 30V | 21V | 30V |
| DL5819 | --- | 40V | 28V | 40V |

Electrical Characteristics @25°C Unless Otherwise Specified

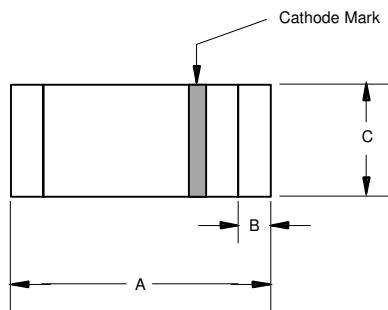
| | | | |
|---|-------------|-------|----------------------|
| Average Forward Current | $I_{F(AV)}$ | 1.0A | $T_A = 90^\circ C$ |
| Peak Forward Surge Current | I_{FSM} | 25A | 8.3ms, half sine |
| Maximum Instantaneous Forward Voltage | | | |
| DL5817 | V_F | .45V | $I_{FM} = 1.0A$; |
| DL5818 | | .55V | $T_J = 25^\circ C$ * |
| DL5819 | | .60V | |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 1.0mA | $T_J = 25^\circ C$ |

*Pulse test: Pulse width 300 μ sec, Duty cycle 2%

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

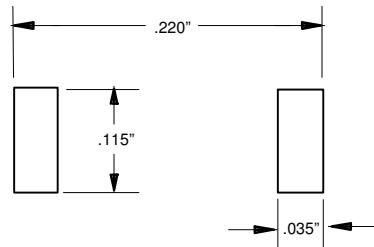
**1 Amp Schottky
Barrier Rectifier
20 to 40 Volts**

MELF



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|------|------|------|-------------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | .190 | .205 | 4.80 | 5.20 | |
| B | --- | .022 | --- | .55 | Nominal |
| C | .095 | .105 | 2.40 | 2.67 | \emptyset |

SUGGESTED SOLDER PAD LAYOUT

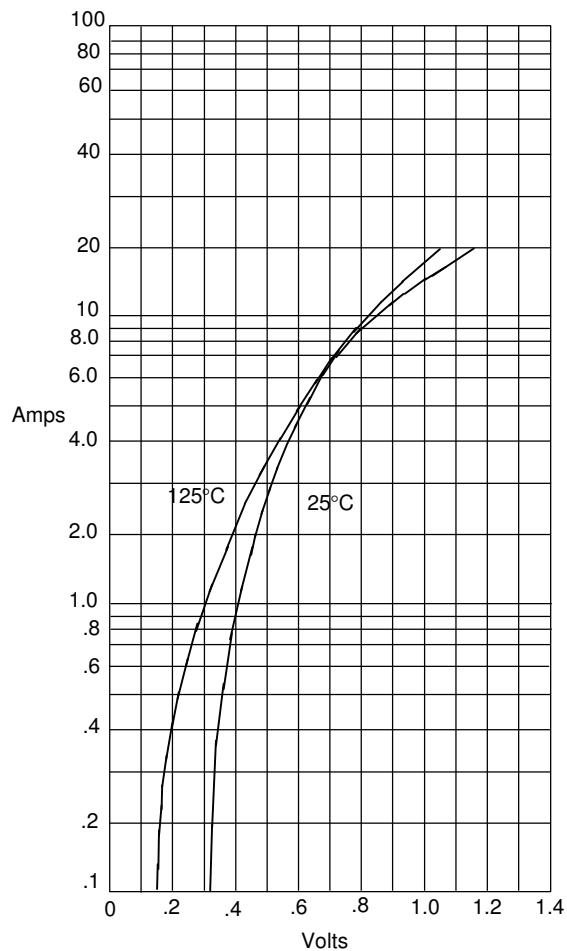


DL5817

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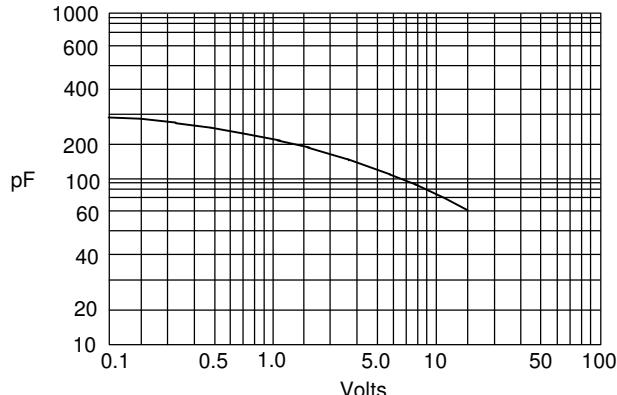
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Figure 1
Typical Forward Characteristics



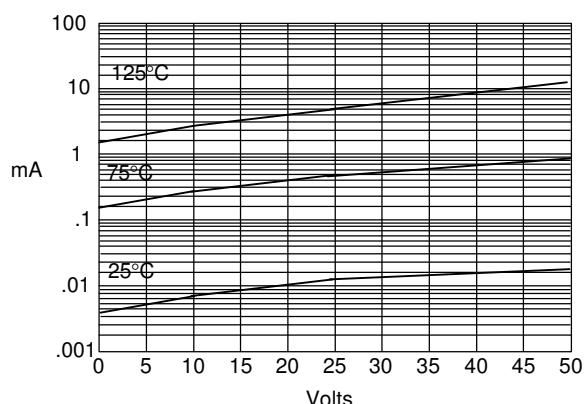
Instantaneous Forward Current - Ampersversus
Instantaneous Forward Voltage - Volts

Figure 2
Typical Junction Capacitance



Junction Capacitance - pFversus
Reverse Voltage - Volts

Figure 3
Typical Reverse Characteristics



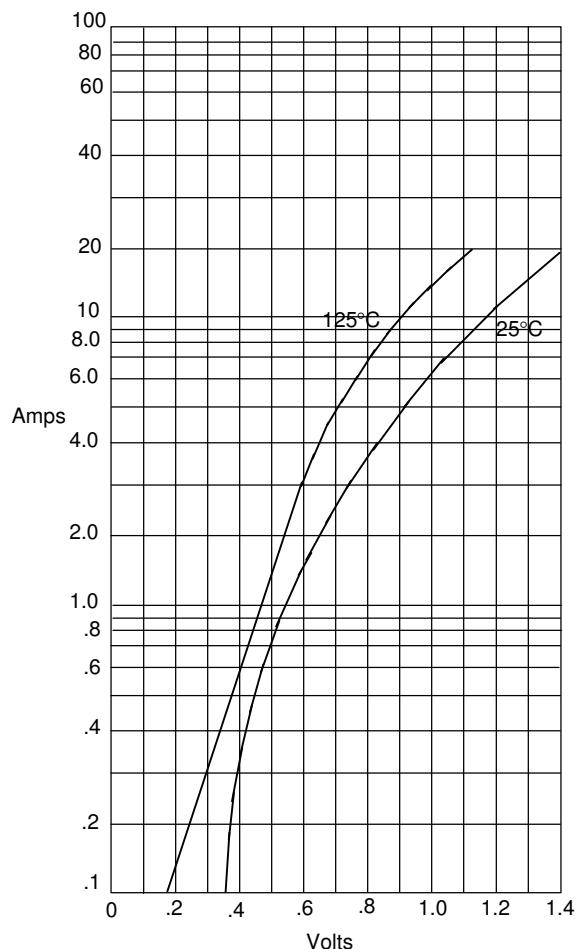
Typical Reverse Current - mAversus
Reverse Voltage - Volts

DL5818 thru DL5819

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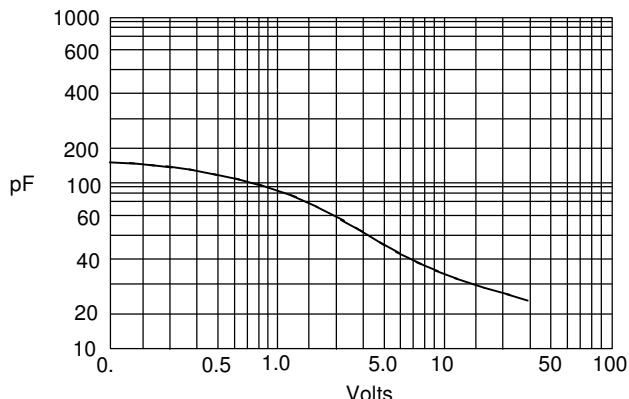
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Figure 1
Typical Forward Characteristics



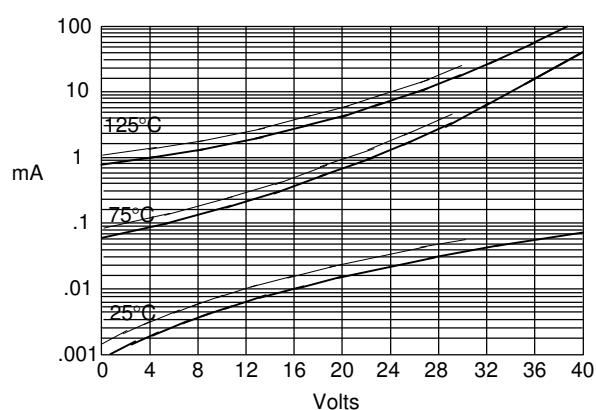
Instantaneous Forward Current - Amperesversus
Instantaneous Forward Voltage - Volts

Figure 2
Typical Junction Capacitance



Junction Capacitance - pFversus
Reverse Voltage - Volts

Figure 3
Typical Reverse Characteristics



Typical Reverse Current - mAversus
Reverse Voltage - Volts

5818 _____
5819 _____

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Ordering Information :

| Device | Packing |
|----------------|-----------------------|
| Part Number-TP | Tape&Reel: 5Kpcs/Reel |

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